

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number  
**WO 2005/013863 A2**

(51) International Patent Classification?: A61F 2/44, 2/30

VELDHUIZEN, Albert, Gerrit [NL/NL]; Academisch Ziekenhuis Groningen, Afdeling Orthopedie, Postbus 30.0001, NL-9700 RG Groningen (NL).

(21) International Application Number:  
PCT/NL2004/000495

(22) International Filing Date: 8 July 2004 (08.07.2004)

(74) Agents: DOHMEN, Johannes, Maria, Gerardus et al.; Algemeen Octrooi- en Merkenbureau, P.O. Box 645, NL-5600 AP Eindhoven (NL).

(25) Filing Language: Dutch

(26) Publication Language: English

(30) Priority Data:  
1023926 15 July 2003 (15.07.2003) NL

(71) Applicant (for all designated States except US): TECHNISCHE UNIVERSITEIT EINDHOVEN [NL/NL]; Den Dolech 2, NL-5612 AZ Eindhoven (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(72) Inventors; and

(75) Inventors/Applicants (for US only): RIJKSUNIVERSITEIT, Groningen [NL/NL]; Postbus 196, NL-9700 AD Groningen (NL). HUYGHE, Jacques, Marie, René, Jan [NL/NL]; van Renesseweg 18, NL-5645 JN Eindhoven (NL). VAN DONKELAAR, Corrinus, Cornelis [NL/NL]; Atalantstraat 13, NL-5641 HJ Eindhoven (NL). WIJLAARS, Marcelus, Wilhelmus [NL/NL]; Geresstraat 128, NL-5922 CW Venlo (NL). VERKERKE, Gijsbertus, Jacob [NL/NL]; Faculteit Medische Wetenschappen, Disciplinarygroep Biomedical Engineering, Rijksuniversiteit Groningen, Postbus 196, NL-9700 AD Groningen (NL). EIJKELKAMP, Marcus, Franciscus [NL/NL]; Faculteit Medische Wetenschappen, Disciplinarygroep Biomedical Engineering, Rijksuniversiteit Groningen, Postbus 196, NL-9700 AD Groningen (NL).

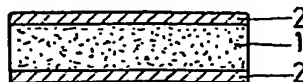
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROSTHESIS MADE OF A FIBRE-REINFORCED HYDROGEL, METHOD OF MANUFACTURING THE PROSTHESIS AND USE THEREOF



(57) Abstract: The present invention relates to a prosthesis comprising a flexible portion and at least one less flexible portion, which flexible portion comprises a fibre-reinforced hydrogel. In addition to that, the invention relates to a prosthesis consisting of a fibre-reinforced hydrogel, which prosthesis is intended to replace cartilaginous materials. The invention further relates to the use of the prosthesis and to a method for manufacturing the prosthesis. The invention furthermore relates to a method of preparing the flexible portion for a prosthesis. Finally, the invention relates to a fibre material apparently intended for use in the prosthesis.

2005/02/22 14:05:30 00901

WO 2005/013863 A2